

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/502,984B

DATE: 07/03/2002

TIME: 12:12:59

Input Set: A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

3 <110> APPLICANT: Luo, Peizhi
5 <120> TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUEDISCO 7 <130> FILE REFERENCE: A-68126-1/RFT/RMS/RMK 9 <140> CURRENT APPLICATION NUMBER: 09/502,984B

10 <141> CURRENT FILING DATE: 2000-02-11

12 <150> PRIOR APPLICATION NUMBER: 60/120,009

13 <151> PRIOR FILING DATE: 1999-02-11

15 <150> PRIOR APPLICATION NUMBER: 60/131,674

16 <151> PRIOR FILING DATE: 1999-04-29

18 <160> NUMBER OF SEQ ID NOS: 37

20 <170> SOFTWARE: PatentIn Ver. 2.1

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 225

24 <212> TYPE: PRT

25 <213> ORGANISM: Homo sapiens

27 <400> SEQUENCE: 1

28 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala 10 31 Leu Leu Ala Ala Arq Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arq

20

34 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val 35 40

37 Gly Pro Gly Asn Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp

55

40 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg 70 75

43 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu

90

46 Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val 47 100 105 110

49 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val

120

52 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro

135

55 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val 150 155

58 Ser Ala Gly Asn Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu

165 170

61 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr 180 185

64 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe

195 200 67 Trp Ser Ala Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu

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210
68
                           215
                                                220
70 Asp
71 225
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 211
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 2
80 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
83 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
86 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
                                40
89 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
92 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
95 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
                    85
                                        90
98 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
                                   105
101 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
            115
                                120
104 Val Val Leu Arg Trp Leu Pro Pro Glu Thr Pro Met Thr Ser His
                            135
                                                140
107 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
108 145
                        150
                                            155
110 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
                    165
                                        170
113 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
114
116 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
117
            195
                                200
119 Leu Leu Thr
120
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123 <210> SEO ID NO: 3
124 <211> LENGTH: 212
125 <212> TYPE: PRT
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
131 <400> SEQUENCE: 3
132 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
133 1
                      5
135 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
138 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
139
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Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

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141 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
 144 Thr Ala Arg Gly Ala Ile Arg Ile Phe Trp Cys Ser Leu Pro Thr Ala
 147 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
150 Gly Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu
                 100
153 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
                                120
156 His Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser
                            135
                                                 140
159 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
                        150
                                             155
162 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
                                         170
165 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
                180
168 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
169
                                200
171 Ser Leu Leu Thr
        210
172
175 <210> SEQ ID NO: 4
176 <211> LENGTH: 211
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
183 <400> SEQUENCE: 4
184 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
187 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu
190 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
193 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
196 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
199 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
202 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
                100
                                    105
205 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
                                120
208 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
211 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
212 145
                        150
                                            155
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Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\1502984B.raw

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214 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
                     165
                                         170
 217 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
                                     185
                                                         190
 220 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
 221
            195
                                 200
223 Leu Leu Thr
224
        210
227 <210> SEQ ID NO: 5
228 <211> LENGTH: 211
229 <212> TYPE: PRT
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
235 <400> SEQUENCE: 5
236 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
237 1
                      5
239 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
242 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
245 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
248 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
                                             75
251 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
                     85
                                         90
254 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
                                    105
257 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
            115
260 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
                            135
                                                 140
263 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
                        150
                                            155
266 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
                    165
                                        170
269 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
                180
                                    185
272 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
273
            195
                                200
275 Leu Leu Thr
276
       210
279 <210> SEO ID NO: 6
280 <211> LENGTH: 211
281 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

287 <400> SEQUENCE: 6 288 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu 291 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu 294 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe 297 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro 300 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp 303 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly 85 90 306 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu 309 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His 310 120 312 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His 313 135 315 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val 150 155 318 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn 165 170 321 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala 180 185 324 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser 325 195 200 205 327 Leu Leu Thr 210 331 <210> SEQ ID NO: 7 332 <211> LENGTH: 211 333 <212> TYPE: PRT 334 <213> ORGANISM: Artificial Sequence 336 <220> FEATURE: 337 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC 339 <400> SEQUENCE: 7 340 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu 343 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu 346 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe 40 349 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro 352 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp 355 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly 358 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; Xaa Pos. 3

VERIFICATION SUMMARY

DATE: 07/03/2002 PATENT APPLICATION: US/09/502,984B TIME: 12:13:00

Input Set : A:\A68126-1.app

Output Set: N:\CRF3\07032002\I502984B.raw

 $L\!:\!1542$ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0